

Amendments To The Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-66 (Cancelled).

67 (Previously Presented). A computer implemented information retrieval system for returning a semantically dependent directory structure of files to a user, comprising:

a file system engine, that receives a file request via a file system application programming interface, wherein said file request specifies a file content of memorized files;

a parser, linked to said file system engine, that retrieves structural information of documents, said parser further retrieving at least one of elements, attributes and respective values thereof from said documents;

an indexer, linked to said parser, for constructing an inverted index of said elements and said attributes and said respective values thereof,

wherein responsive to said file request, said file system engine retrieves postings of said inverted index that satisfy requirements of said file request, and returns a hierarchical tree of directories to said user; and

wherein said file system engine returns a special virtual directory in each of said directories, wherein a content of said special virtual directory comprises at least one level of said hierarchical tree, said one level being more deeply nested than a level of said special virtual directory in said hierarchical tree.

68 (Previously Presented). The information retrieval system according to claim 67, wherein said file system engine returns contents of said special virtual directory by invoking an operator, said operator being designated responsively to a name of said special virtual directory, to a context node of a parent of said special virtual directory.

69 (Previously Presented). The information retrieval system according to claim 68, wherein said file system engine returns contents of said special virtual directory by parsing said name of said special virtual directory, translating said name of said special virtual directory into a query and responding to said query using said inverted index.

70-75 (Cancelled).

76 (Original). The information retrieval system of claim 67, wherein said inverted index comprises a structural

section having postings of said structural information, and a words section having postings of words of said documents.

77 (Original). The information retrieval system of claim 67, further comprising an analyzer for updating said inverted index, wherein said analyzer analyzes additions to said memorized files.

78 (Previously Presented). The information retrieval system of claim 67, wherein said parser retrieves said structural information from said documents.

79 (Previously Presented). A computer implemented information retrieval system for returning a semantically dependent directory structure of XML files to a user, comprising:

a file system engine, that receives a file request via a file system application programming interface, wherein said file request specifies a file content of memorized files;

an XML parser, linked to said file system engine, that retrieves structural information of XML documents, said XML parser further retrieving at least one of elements, attributes and respective values thereof from said XML documents;

an indexer, linked to said XML parser, for constructing an inverted index of said elements and said attributes and said respective values thereof,

wherein responsive to said file request, said file system engine retrieves postings of said inverted index that satisfy requirements of said file request, and returns a hierarchical tree of directories to said user; and

wherein said file system engine returns a special virtual directory in each of said directories, wherein a content of said special virtual directory comprises at least one level of said hierarchical tree, said one level being more deeply nested than a level of said special virtual directory in said hierarchical tree.

80 (Previously Presented). The information retrieval system according to claim 79, wherein said file system engine returns contents of said special virtual directory by invoking an operator, said operator being designated responsively to a name of said special virtual directory, to a context node of a parent of said special virtual directory.

81 (Previously Presented). The information retrieval system according to claim 80, wherein said file system engine returns contents of said special virtual

directory by parsing said name of said special virtual directory, translating said name of said special virtual directory into a query and responding to said query using said inverted index.

82-87 (Canceled)

88 (Original) The information retrieval system of claim 79, wherein said inverted index comprises a structural section having postings of said structural information, and a words section having postings of words of said XML documents.

89. (Original) The information retrieval system of claim 79, further comprising an XML analyzer for updating said inverted index, wherein said XML analyzer analyzes additions to said memorized files.

90. (Previously Presented). The information retrieval system of claim 79, wherein said XML parser retrieves said structural information from said XML documents.


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Favorable reconsideration and allowance are
earnestly solicited.

Respectfully submitted,

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